

Appl. No. 09/865,471
Examiner: Phillips, Hassan A, Art Unit 2151
In response to the Office Action dated September 23, 2004

Date: January 21, 2005
Attorney Docket No. 10112071

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently Amended): A method for real-time data scheduling for displaying real-time data using a server, the server collecting a plurality of data, assorting the data into a plurality of channel-data, giving a queue number and a timer on each channel-data, the client having a user interface, a plurality of queues, a plurality of channel receiving unit and a channel-data switching unit, the method for real-time data scheduling comprising:

- a. making a channel request to the server from the channel unit;
- b. receiving the channel request in the server and transferring the corresponding channel-data to the channel receiving unit;
- c. receiving the channel-data in the channel unit, determining one of the queues that the channel-data to be entered according to the queue number of the channel-data, and defining the time to enter into a plurality of the queue queues according to the timer of the channel-data, and defining the order of the channel data in the corresponding queue according to the queue number of the channel data in which respective queues have a corresponding priority; and
- d. retrieving the channel-data from the queues in by the channel-data switching unit ~~in the queues, in which data in the queue with higher priority is retrieved prior than that in the queue with lower priority, and~~ displaying the data by the user interface unit and repeating step (a).

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Claim 2 (Original): The method for real-time data scheduling of claim 1, wherein the queue number defines the priority of the data display.

Claim 3 (Original): The method for real-time data scheduling of claim 2, wherein the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 4 (Original): The method for real-time data scheduling of claim 2, wherein when the channel-data with higher priority of the data display cut in the queue, the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 5 (Original): The method for real-time data scheduling of claim 1, wherein the channel-data display in the queue follows the FIFO (first in first out) rule.

Claim 6 (Original): The method for real-time data scheduling of claim 1, wherein when the channel-data in a plurality of queues is empty, pre-determined data with timer defining the display time of a later period is displayed simultaneously.

Claim 7 (Original): The method for real-time data scheduling of claim 6, wherein the pre-determined data is an advertisement.

Claim 8 (Original): The method for real-time data scheduling of claim 1, wherein the server provides the user interface.

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Claim 9 (Currently Amended): The method for real-time data scheduling of claim 1, wherein the channel-data is dependent upon a client request, and the channel-data corresponds to of-
including a selected number plurality of the channel units.

Claim 10 (Currently Amended): A method for real-time data scheduling for displaying real-time data using a server, the server collecting a plurality of data, assorting the data into a plurality of channel-data, giving a priority number and a timer on each channel-data, the client having a user interface, a plurality of queues, a plurality of channel receiving unit and a channel-data switching unit, the method for real-time data scheduling comprising:

- a. making a corresponding channel request to the server from the channel unit;
- b. receiving the channel request in the server and transferring the corresponding channel-data to the channel receiving unit;
- c. receiving the channel-data in the channel unit, determining whether ~~the client generates~~ a corresponding queue is already generated according to the priority number of the channel-data, if yes defining the time to enter into the queue according to the timer ~~and the priority number~~ of the channel-data, if not, generating the corresponding queue ~~according to the timer and the priority number of the channel-data as the reference so as to~~ and defining ~~define~~ the time for the channel-data to enter into the queue; and
- d. retrieving the channel-data in the channel-data switching unit in the queues, displaying the data by the user interface unit and repeating step (a).

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Claim 11 (Original): The method for real-time data scheduling of claim 10, wherein the queue number defines the priority of the data display.

Claim 12 (Original): The method for real-time data scheduling of claim 11, wherein the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 13 (Original): The method for real-time data scheduling of claim 11, wherein when the channel-data with higher priority of the data display cuts in the queue, the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 14 (Original): The method for real-time data scheduling of claim 10, wherein the channel-data display in the queue follows the FIFO (first in first out) rule.

Claim 15 (Original): The method for real-time data scheduling of claim 10, wherein when the channel-data in a plurality of queues is empty, pre-determined data with timer defining the display time of a later period is displayed simultaneously.

Claim 16 (Original): The method for real-time data scheduling of claim 15, wherein the pre-determined data is an advertisement.

Claim 17 (Original): The method for real-time data scheduling of claim 10, wherein the server provides the user interface.

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Claim 18 (Currently Amended): The method for real-time data scheduling of claim 20 10, wherein the channel-data is dependent upon a client request, and the channel-data corresponds to ~~of including~~ a selected number plurality of the channel units.

Claim 19 (Currently Amended): A system for real-time data scheduling comprising:
a server used for receiving a channel request and providing a corresponding channel-data,
wherein the channel-data further comprising a timer and a queue number ; and
a client having a user interface unit, a plurality of queues and a plurality of channel units;
wherein, the channel unit sends a channel request, receives corresponding channel-data,
determines one of the queues that the channel-data to be entered according to the queue
number of the channel-data, and defines the time to enter into the queue a plurality of
queues according to the timer of the channel-data, and defining the order of the channel-
data in the corresponding queue according to the queue number of the channel data in
which respective queues have a corresponding priority, and channel-data in the queue
with higher priority is retrieved prior than that in the queue with lower priority

Claim 20 (Original): The system for real-time data scheduling of claim 19, wherein the queue number defines the priority of the data display.

Claim 21 (Original): The system for real-time data scheduling of claim 20, wherein the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

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Claim 22 (Original): The system for real-time data scheduling of claim 20, wherein when the channel-data with higher priority of the data display cuts in the queue, the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 23 (Original): The system for real-time data scheduling of claim 19, wherein the channel-data display in the queue follows the FIFO (first in first out) rule.

Claim 24 (Original): The system for real-time data scheduling of claim 19, wherein when the channel-data in a plurality of queues is empty, pre-determined data with timer defining the display time of a later period is displayed simultaneously.

Claim 25 (Original): The system for real-time data scheduling of claim 24, wherein the pre-determined data is an advertisement.

Claim 26 (Original): The system for real-time data scheduling of claim 19, wherein the server provides the user interface.

Claim 27 (Currently Amended): The system for real-time data scheduling of claim 19, wherein the channel-data is dependent upon a client request, and the channel-data corresponds to ef-
including a selected number plurality of the channel units.

Claim 28 (Currently Amended): A system for real-time data scheduling comprising:

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a server used for receiving a channel request and providing a corresponding channel-data,
wherein the channel-data further comprising ~~a timer and~~ a timer and a priority number;
and
a client having a user interface unit and a plurality of channel units;
wherein, the channel unit sends a channel request, receives the corresponding channel-data,
determines whether ~~the client generates~~ a corresponding queue is already generated according
to the priority number of the channel-data, if yes, defines the time to enter into the queue
according to the timer ~~and the priority number~~ of the channel-data, if not, generates the
corresponding queue, and ~~according to the timer and the priority number of the channel data as~~
~~the reference so as to define~~ defines the time for the channel-data to enter into the queue.

Claim 29 (Original): The system for real-time data scheduling of claim 28, wherein the queue
number defines the priority of the data display.

Claim 30 (Original): The system for real-time data scheduling of claim 29, wherein the channel-
data with higher priority of the data display is displayed prior than the channel-data with lower
priority of the data display.

Claim 31 (Original): The system for real-time data scheduling of claim 29, wherein when the
channel-data with higher priority of the data display cuts in the queue, the channel-data with
higher priority of the data display is displayed prior than the channel-data with lower priority of
the data display.

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Claim 32 (Original): The system for real-time data scheduling of claim 28, wherein the channel-data display in the queue follows the FIFO (first in first out) rule.

Claim 33 (Original): The system for real-time data scheduling of claim 28, wherein when the channel-data in a plurality of queues is empty, pre-determined data with timer defining the display time of a later period is displayed simultaneously.

Claim 34 (Original): The system for real-time data scheduling of claim 33, wherein the pre-determined data is an advertisement.

Claim 35 (Original): The system for real-time data scheduling of claim 28, wherein the server provides the user interface.

Claim 36 (Currently Amended): The system for real-time data scheduling of claim 28, wherein the channel-data is dependent upon a client request, and the channel-data corresponds to ef- including a selected number plurality of the channel units.